



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
Group Art Unit _____

In re

Patent Application of

Craig E. Smith, et al.

Serial No. 09/813,077

Filed: March 20, 2001

Examiner: _____

"PH DEPENDENT ION EXCHANGE
MATRIX AND METHOD OF USE IN THE
ISOLATION OF NUCLEIC ACIDS"

Sir:

Transmitted herewith is a Preliminary Amendment in the above-identified application. The fee has been calculated as shown below.

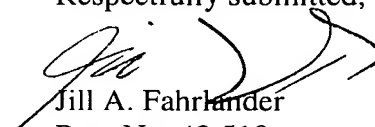
| CLAIMS AS AMENDED | | | | | | | |
|-------------------|---|--|-------|--|-------------------------|-------------|--------------------------|
| | (1) | (2) CLAIMS REMAINING AFTER AMENDMENT | (3) | (4) HIGHEST NO. PREVIOUSLY PAID FOR | (5) PRESENT EXTRA | (6) RATE | (7) ADDITIONAL FEE |
| | TOTAL CLAIMS | 40 | MINUS | 35 | 5 | X \$18 | 90.00 |
| | INDEP. CLAIMS | 5 | MINUS | 3 | 2 | X \$84 | 168.00 |
| | TOTAL ADDITIONAL FEE FOR THIS AMENDMENT ---- • | | | | | | 258.00 |

A check in the amount of \$258.00 is attached.

In the event Applicant has overlooked the need to request an extension of time, please consider this a request for same.

Charge or credit Deposit Account No. 50-0842 with any shortage or overpayment of the fees associated with this communication. A duplicate copy of this sheet is enclosed.

Respectfully submitted,


Jill A. Fahrlander
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
Group Art Unit 1741

Patent Application of

Craig E. Smith *et al.*

Serial No. 09/813,077

Filed: March 20, 2001

Examiner: Unknown

"pH DEPENDENT ION EXCHANGE MATRIX
AND METHOD OF USE IN THE ISOLATION OF
NUCLEIC ACIDS"

I, Leslie Lindsay, hereby certify that this correspondence is being deposited with the US Postal Service as first class mail in an envelope addressed to Assistant Commissioner for Patents, Office of Initial Patent Examination, Customer Service Center, Washington, DC 20231 on the date of my signature.

Leslie Lindsay
Signature

09 April 2002
Date of Signature

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

In the matter of the above-noted application, and prior to examination on the merits, please amend the subject application as follows:

In the claims:

Please add the following new claims:

103. (New Claim) A pH dependent ion exchange matrix, comprising:
- a solid support, and
 - a plurality of ion exchange ligands, each first ion exchange ligand comprising:
 - a cap comprising an amine with a pK of less than about 9;
 - a spacer covalently attached to the cap, the spacer comprising a spacer alkyl chain with an amine terminus and an acidic moiety covalently attached to the spacer alkyl chain; and
 - a linker comprising a linker alkyl chain covalently attached to the solid support at a first end of the linker alkyl chain and covalently attached to the amine terminus of the spacer at a second end of the linker alkyl chain;

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01 FC:103
02 FC:102

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